

WHAT IS CLAIMED IS:

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1. A connection scheduling method comprising the steps of:
 2. determining if a job is available for scheduling;
 3. determining, in response to said step of determining if said job is available, if a session is available, wherein said session is included in a pool of sessions, said pool of sessions having a preselected one of a set of priority levels corresponding to a priority level of said job and wherein said session effects an execution of said job; and
 4. launching said session to effect said execution of said job, if said session is available.
1. Sub 2. The method of claim 1 wherein said session comprises an thread.
1. 3. The method of claim 1 further comprising the step of creating a connection to a target system for said execution of said job.
1. 4. The method of claim 3 further comprising the step of determining if said connection is an existing connection, and wherein said step of creating said connection is performed if said connection is not an existing connection.

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5. The method of claim 1 further comprising a step of launching an error handling thread in response to an error condition, said error handling thread releasing said session.
6. The method of claim 5 further comprising the step of changing value of a job state from a first value to a second value in response to said launching of said error handling thread.
7. The method of claim 6 wherein said first value signals that said job is available for scheduling.
8. The method of claim 1 further comprising the step of retrying said steps of determining if a job is available for scheduling, determining if a session is available, and launching said session in response to an error condition.
9. The method of claim 8 wherein said step of retrying is repeated until a predetermined time interval has elapsed.
10. The method of claim 9 further comprising the step of registering a callback method in response to an expiry of said predetermined time interval.

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11. The method of claim 10 wherein said steps of determining if a job is available for scheduling, determining if a session is available, and launching said session are performed in response to an invoking of said callback method by a target system, said target system for execution of said job.

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1 12. A data processing system for connection scheduling comprising:
2 circuitry operable for determining if a job is available for scheduling;
3 circuitry operable for determining, in response to said circuitry operable for
4 determining if said job is available, if a session is available, wherein said session is
5 included in a pool of sessions, said pool of sessions having a preselected one of a set
6 of priority levels corresponding to a priority level of said job and wherein said session
7 effects an execution of said job; and
8 circuitry operable for launching said session to effect said execution of said
9 job, if said session is available.

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13. The system of claim 12 wherein said session comprises an thread.

1 14. The system of claim 12 further comprising circuitry operable for creating a
2 connection to a target system for said execution of said job.

1 15. The system of claim 14 further comprising circuitry operable for determining
2 if said connection is an existing connection, and wherein said circuitry operable for
3 creating said connection is operated if said connection is not an existing connection.

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16. The system of claim 12 further comprising circuitry operable for launching an error handling thread in response to an error condition, said error handling thread releasing said session.
17. The system of claim 16 further comprising circuitry operable for changing value of a job state from a first value to a second value in response to said launching of said error handling thread.
18. The system of claim 17 wherein said first value signals that said job is available for scheduling.
19. The system of claim 12 further comprising circuitry operable for retrying said steps of determining if a job is available for scheduling, determining if a session is available, and launching said session in response to an error condition.
20. The system of claim 19 wherein said circuitry operable for retrying is operated until a predetermined time interval has elapsed.
21. The system of claim 20 further comprising circuitry operable for registering a callback method in response to an expiry of said predetermined time interval.

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22. The system of claim 21 wherein said circuitry operable for determining if a job is available for scheduling, determining if a session is available, and launching said session are operated in response to an invoking of said callback method by a target system, said target system for execution of said job.

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23. A computer program product embodied in a machine readable storage medium, the program product for job scheduling comprising instructions for: determining if a job is available for scheduling, determining, in response to said instructions for determining if said job is available, if a session is available, wherein said session is included in a pool of sessions, said pool of sessions having a preselected one of a set of priority levels corresponding to a priority level of said job and wherein said session effects an execution of said job; and launching said session to effect said execution of said job, if said session is available.

1 24. The program product of claim 23 wherein said session comprises an thread.

1 25. The program product of claim 23 further comprising instructions for creating a 2 connection to a target system for said execution of said job.

1 26. The program product of claim 25 further comprising instructions for 2 determining if said connection is an existing connection, and wherein said 3 instructions for creating said connection are performed if said connection is not an 4 existing connection.

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27. The program product of claim 23 further comprising instructions for launching an error handling thread in response to an error condition, said error handling thread releasing said session.

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28. The program product of claim 27 further comprising instructions for changing value of a job state from a first value to a second value in response to said launching of said error handling thread.

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29. The program product of claim 28 wherein said first value signals that said job is available for scheduling.

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30. The program product of claim 29 further comprising programming for retrying said steps of determining if a job is available for scheduling, determining if a session is available, and launching said session in response to an error condition.

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31. The program product of claim 30 wherein said instructions for retrying are repeated until a predetermined time interval has elapsed.

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32. The program product of claim 31 further comprising programming for registering a callback method in response to an expiry of said predetermined time interval.

- 1 33. The program product of claim 32 wherein said instructions for determining if
2 a job is available for scheduling, determining if a session is available, and launching
3 said session are executed in response to an invoking of said callback method by a
4 target system, said target system for execution said job.